

WHAT IS CLAIMED IS:

1. A method for forming a metal back-attached phosphor screen, comprising:

5           forming a phosphor layer on an inner surface of a face plate;  
          disposing a transfer film in which at least a release agent layer, a smooth resin film and an adhesive agent layer are formed on a base film onto the phosphor layer so that the resin film contacts the phosphor layer with the adhesive agent layer intervened  
10       therebetween, pressing the transfer film while applying heat by a transfer roller to bond the transfer film, and subsequently peeling off the base film, to thereby transfer the resin film;

          forming a metal film on the resin film transferred onto the phosphor layer; and

15       heating the face plate in which the metal film is formed.

2. The method for forming the metal back-attached phosphor screen as set forth in claim 1, further comprising pressing the resin film transferred onto the phosphor layer while applying heat by a press roller.

20       3. The method for forming the metal back-attached phosphor screen as set forth in claim 1 or 2, wherein the resin film contains one kind or more of resins selected from an acrylic resin, a melamine resin, an urea resin, an acryl-melamine copolymer resin, a melamine-urea copolymer resin, a polyurethane resin, a polyester  
25       resin, an epoxy resin, an alkyd resin, a polyamide resin, celluloses, a vinyl-based resin.

4. The method for forming the metal back-attached phosphor screen as set forth in any one of claim 1 to claim 3, wherein the

screen as set forth in any one of claim 1 to claim 3, wherein the resin film contains a resin as a main component and contains one kind or more of softening agents selected from a phosphoric ester, an aliphatic monobasic acid ester, an aliphatic dibasic acid ester, a dihydric alcohol ester, an oxyacid ester, a butyl oleate, a dibutyl adipate, a paraffin chloride, a toluene sulfonethylamide, a toluene sulfonmethylamide, an aminobenzene sulfonamide compound, a methyl abietate, a dinonylnaphthalene, an acetyl tributyl citrate, an aminotoluene sulfonamide compound, and an N-butyl benzene sulfonamide.

5. The method for forming the metal back-attached phosphor screen as set forth in claim 4, wherein the softening agent is contained in a ratio of 1 to 30 weight % of the entire materials constituting the resin film.

6. The method for forming the metal back-attached phosphor screen as set forth in any one of claim 1 to claim 5, wherein the adhesive agent contains as a main component one kind or more of resins selected from a vinyl acetate resin, an ethylene-vinyl acetate copolymer, a styrene-acrylic acid resin, an ethylene-vinyl acetate-acrylic acid terpolymer resin, a vinyl chloride-vinyl acetate copolymer resin, a polybutene resin, and a polyamide resin.